

We claim:

1. A composition comprising of:
 - (a) a carboxylic acid or phosphorus containing acid providing that the phosphorus containing acid is not a glyphosate,
 - (b) an amine containing surfactant and
 - (c) at least one water soluble agricultural chemical,with the proviso that the composition contains less than 3 percent by weight of phosphate ester surfactant and the proviso that if a carboxylic acid and glyphosate are present, then said glyphosate and carboxylic acid are in a weight/weight ratio of glyphosate to carboxylic acid in a 8: 1 to about 2:1.
2. The composition as claimed in claim 1, wherein said carboxylic acid is a mono-carboxylic acid of the formula $C_xH_{2x}O_2$, where $x = 1$ to 5.
3. The composition as claimed in claim 1, wherein said carboxylic acid is a di-carboxylic acid of the formula $C_xH_{2x-2}O_4$, where $x = 2$ to 5.
4. The composition as claimed in claim 1, wherein said carboxylic acid is a tri-carboxylic acid.
5. The composition as claimed in claim 2, wherein said mono-carboxylic acid is formic acid, acetic acid, propionic acid, butyric acid or valeric acid.
6. The composition as claimed in claim 3, wherein said di-carboxylic acid is oxalic acid, malonic acid, succinic acid or glutaric acid.
7. The composition as claimed in claim 4, wherein said tri-carboxylic acid is citric acid.
8. The composition as claimed in claim 1, wherein said phosphorus-containing acid is phosphoric acid.

- $$\text{R}^1 - \text{N} \begin{cases} (\text{CH}_2\text{CH}_2\text{O})_x(\text{CH}_2\text{CHO})_y\text{H} \\ (\text{CH}_2\text{CH}_2\text{O})_a(\text{CH}_2\text{CHO})_b\text{H} \end{cases}$$

x,y,a, and b are independently a number from 0 to 100 with the proviso that $x+y+a+b$ is at least 2.

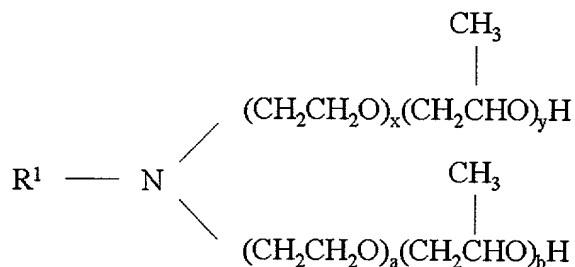
- $$\begin{array}{c}
 \begin{array}{ccc}
 \text{CH}_3 & & \text{CH}_3 \\
 | & & | \\
 \text{H}-(\text{CH}_2\text{CH}_2\text{O})_x(\text{CH}_2\text{CHO})_y & & (\text{CH}_2\text{CHO})_a(\text{CH}_2\text{CH}_2\text{O})_b\text{H} \\
 & \diagdown \quad \diagup & \\
 & \text{N}-\text{CH}_2\text{CH}_2-\text{N} & \\
 & \diagup \quad \diagdown & \\
 \text{CH}_3 & & \text{CH}_3 \\
 | & & | \\
 \text{H}-(\text{CH}_2\text{CH}_2\text{O})_r(\text{CH}_2\text{CHO})_s & & (\text{CH}_2\text{CHO})_c(\text{CH}_2\text{CH}_2\text{O})_d\text{H}
 \end{array}
 \end{array}$$

12. The composition as claimed in claim 10, wherein said fatty amine alkoxylate is tallowamine ethoxylate.

13. The composition as claimed in claim 1, wherein said water-soluble agricultural chemical is a fertilizer.
14. The composition as claimed in claim 1, wherein said water soluble agricultural chemical is a pesticide.
15. The composition as claimed in claim 13, wherein said fertilizer is ammonia sulfate, ammonia salt of a carboxylic acid mono- potassium phosphate or di-potassium phosphate, ammonia nitrate, urea, ammonia citrate or ammonia acetate.
16. The composition as claimed in claim 13, wherein said fertilizer is a micronutrient.
17. The composition as claimed in claim 16, wherein said micronutrient is a water soluble salt of zinc, copper, manganese, magnesium, iron or boron.
18. The composition as claimed in claim 14, wherein said pesticide is a herbicide, insecticide and fungicide.
19. The composition as claimed in claim 18, wherein said herbicide is a chlorinated carboxylic acid herbicide.
20. The composition as claimed in claim 18, wherein said herbicide is glyphosate or a salt thereof.
21. The composition as claimed in claim 18, wherein said herbicide is glyphosate-trimesium or a salt thereof.
22. The composition as claimed in claim 18, wherein said herbicide is glufosinate or a salt thereof.
23. The composition as claimed in claim 18, wherein said herbicide is a synthetic auxin.

24. The composition as claimed in claim 23, wherein said synthetic auxin is chloramben or dicamba or salts thereof.
25. The composition as claimed in claim 23, wherein said synthetic auxin is a phenoxy carboxylic acid, 2,4-dichlorophenoxy acetic acid, 2,4,5-trichlorophenoxy acetic acid, 2,4-dichlorophenoxy butyric acid, clomeprop, dichlorprop, dichlorprop-P, monochlorophenoxy acetic acid, monochlorophenoxy butyric acid, mecoprop, or mecoprop-P or salts thereof.
26. The composition as claimed in claim 23, wherein said synthetic auxin is 2,4-dichlorophenoxy acetic acid, 2,4,5-trichlorophenoxy acetic acid, 2,4-dichlorophenoxy butyric acid, clomeprop, dichlorprop, dichlorprop-P, monochlorophenoxy acetic acid, monochlorophenoxy butyric acid, mecoprop or mecoprop-P or salts thereof.
27. The composition as claimed in claim 23, wherein said synthetic auxin is a pyridine carboxylic acid, clopyralid, fluroxypyr, picloram or triclopyr or salts thereof.
28. The composition as claimed in claim 23, wherein said synthetic auxin is a quinoline carboxylic acid, quiclorac or quinmerac or salts thereof.
29. A composition comprising:
 (a) a phosphorus containing acid providing that the phosphorus containing acid is not a glyphosate,
 (b) an amine containing surfactant and
 (c) at least one water soluble agricultural chemical,
with the proviso that the composition contains less than 3 percent by weight of phosphate ester surfactant.
30. The composition as claimed in claim 29, wherein said phosphorus-containing acid is phosphoric acid.

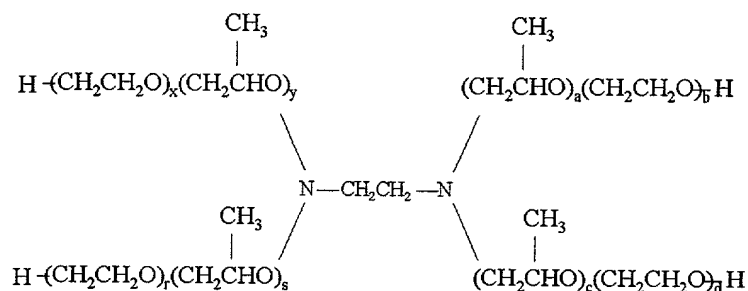
31. The composition as claimed in claim 29, wherein said phosphorus-containing acid is phosphorous acid.
32. The composition as claimed in claim 29, wherein said amine-containing surfactant is a fatty amine alkoxylate of the formula:



wherein R¹ is a C₈-C₂₂ alkyl group,

x,y,a, and b are independently a number from 0 to 100 with the proviso that $x+y+a+b$ is at least 2.

32. The composition as claimed in claim 29, wherein said amine containing surfactant is a block copolymer derived from the sequential addition of ethylene oxide and optionally propylene oxide to ethylenediamine, of the formula:

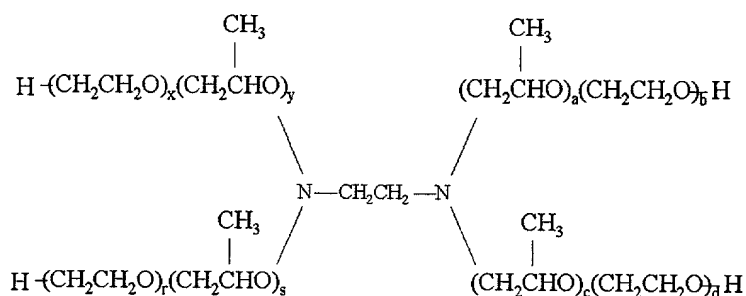


where x,y,a,b,c,d,r, and s are independently a number from 0-100, with the proviso that the sum of a+b+c+d+r+s+x+y must be at least 4.

33. The composition as claimed in claim 29, wherein said fatty amine alkoxylate is tallowamine ethoxylate.

34. The composition as claimed in claim 29, wherein said water-soluble agricultural chemical is a fertilizer.
35. The composition as claimed in claim 29, wherein said water soluble agricultural chemical is a pesticide.
36. The composition as claimed in claim 34, wherein said fertilizer is ammonia sulfate, ammonia salt of a carboxylic acid, mono-potassium phosphate, di-potassium phosphate, ammonia nitrate, urea, ammonia citrate or ammonia acetate.
37. The composition as claimed in claim 34, wherein said fertilizer is a micronutrient.
38. The composition as claimed in claim 37, wherein said micronutrient is a water soluble salt of zinc, copper, manganese, magnesium, iron or boron.
39. The composition as claimed in claim 35, wherein said pesticide is a herbicide, insecticide or fungicide.
40. The composition as claimed in claim 39, wherein said pesticide is a chlorinated carboxylic acid herbicide.
41. The composition as claimed in claim 39, wherein said pesticide is glyphosate or a salt thereof.
42. The composition as claimed in claim 39, wherein said herbicide is glyphosate-trimesium or a salt thereof.
43. The composition as claimed in claim 39, wherein said herbicide is glufosinate or a salt thereof.

44. The composition as claimed in claim 39, wherein said herbicide is a synthetic auxin.
45. The composition as claimed in claim 44, wherein said synthetic auxin is chloramben or dicamba or salts thereof.
46. The composition as claimed in claim 44, wherein said synthetic auxin is chloramben or dicamba or salts thereof.
47. The composition as claimed in claim 44, wherein said synthetic auxin is a phenoxy carboxylic acid, 2,4-dichlorophenoxy acetic acid, 2,4,5-trichlorophenoxy acetic acid, 2,4-dichlorophenoxy butyric acid, clomeprop, dichlorprop, dichlorprop-P, monochlorophenoxy acetic acid, monochlorophenoxy butyric acid, mecoprop, or mecoprop-P or salts thereof.
48. The composition as claimed in claim 44, wherein said synthetic auxin is 2,4-dichlorophenoxy acetic acid, 2,4,5-trichlorophenoxy acetic acid, 2,4-dichlorophenoxy butyric acid, clomeprop, dichlorprop, dichlorprop-P, monochlorophenoxy acetic acid, monochlorophenoxy butyric acid, mecoprop or mecoprop-P or salts thereof.
49. The composition as claimed in claim 44, wherein said synthetic auxin is a pyridine carboxylic acid, clopyralid, fluroxypyr, picloram or triclopyr or salts thereof.
50. The composition as claimed in claim 44, wherein said synthetic auxin is a quinoline carboxylic acid, quiclorac or quinmerac or salts thereof.
51. A composition comprising:
- (a) a phosphorus containing acid providing that the phosphorus containing acid is not a glyphosate,
 - (b) an amine containing surfactant of the formula:



where x,y,a,b,c,d,r, and s are independently a number from 0-100, with the proviso that the sum of a+b+c+d+r+s+x+y must be at least 4 and

(c) at least one water soluble agricultural chemical,
with the proviso that the composition contains less than 3 percent by weight of phosphate ester surfactant.

52. A method for treating soil which comprises adding the composition as claimed in claim 1 to the soil.

53. A method for treating soil which comprises adding the composition as claimed in claim 29 to the soil.

54. A composition comprising of:

- (a) a carboxylic acid or phosphorus containing acid providing that the phosphorus containing acid is not a glyphosate,
- (b) an amine containing surfactant and
- (c) at least one water soluble agricultural chemical,

with the proviso that the composition contains less than 3 percent by weight of phosphate ester surfactant and the proviso that if a carboxylic acid is used for said component (a) and a glyphosate is used for said component (c), then said carboxylic acid is present in an amount that does not effectively reduce eye irritation.

55. A method for treating soil which comprises adding the composition as claimed in claim 54 to the soil.